

REMARKS

Reconsideration of the application is requested in view of the modifications above and the remarks below. Applicants acknowledge the withdrawal of the rejection under 35 USC 103, as well as rejections under 35 USC 112.

Objections

The Office Action objected to the title and the Abstract. Applicants have modified the title and the Abstract, pursuant to the Examiner's request. Applicants' appreciate the Examiner's kind suggestions.

Rejections Under 35 USC 112

1. The Office Action rejected Claims 43-48, 54, and 55 under 35 USC 112, second paragraph. In view of the modifications above, the rejection is believed overcome. Reconsideration is requested.

2. The Office Action rejected Claims 43, 45, 46, and 49-55 under 35 USC 112, second paragraph. In view of the modifications above, the rejection is believed overcome. Reconsideration is requested.

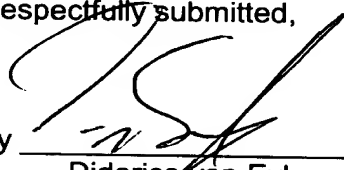
3. The Office Action rejected Claims 43, and 45-55 under 35 USC 112, first paragraph. In view of the modifications above, the rejection is believed overcome. Reconsideration is requested.

4. The Office Action rejected Claims 43-48, 54, and 55 under 35 USC 112, second paragraph. In view of the modifications above, the rejection is believed overcome. Reconsideration is requested.

In view of the remarks above, a Notice of Allowance is earnestly requested.

Respectfully submitted,

By


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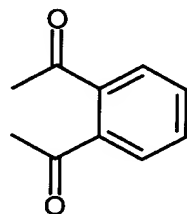
Mo-5451

α,ω -DIENE METATHESIS IN THE PRESENCE OF IONIC LIQUIDS

ABSTRACT OF THE DISCLOSURE

A process for preparing a cyclic compound comprising subjecting a starting material in the presence of a catalyst component to metathesis reaction in the presence of an ionic liquid, wherein the starting material is a α,ω -diene bearing a α substituent NRR^1 in the α position to a double bond, wherein R is hydrogen or an organic substituent, R^1 is tert-butyl, P(R)_2 , $\text{P(R}^2)_2$, COR, SO_2PhR , COOR or CONRR^2 , R^2 is alkyl or phenyl,

or R and R^1 together form



and

in which α,ω -dienes optionally bear at least one further substituent R in any other position with the exception of the α position, wherein R is selected from the group consisting of hydrogen, fused or unfused aryl, alkyl, CN, COOR^2 or halogen, and wherein the starting material optionally contains a member selected from the group containing at least one further substituent that is inert in the metathesis reaction and a heteroatom selected from the group consisting of branched alkyl radicals, unbranched alkyl radicals, aromatic carbocyclic rings, non-aromatic carbocyclic rings, carboxylic acids, esters, ethers, epoxides, silyl ethers, thioethers, thioacetals, anhydrides, imines, silylenol ethers, ammonium salts, amides, nitriles, perfluoroalkyl groups, geminal dialkyl groups, alkynes, alkenes, halogens, alcohols, ketones, aldehydes, carbamates, carbonates, urethanes, sulfonates, sulfones, sulfonamides, nitro groups, organosilane units, metal centers and oxygen-containing heterocycles, nitrogen-containing heterocycles, sulfur-containing heterocycles and phosphorus-containing heterocycles, wherein the catalyst component includes homogeneous catalysts and heterogeneous catalysts selected from the group consisting of (i) transition metal carbenes, (ii) transition metal compounds that form transition metal carbenes under the reaction conditions, and (iii) transition metal salts in combination with an alkylating agent.--

